



Gigabit Ethernet Transport

REDUCING NETWORK COMPLEXITY WITH A COMMON LAN/WAN TECHNOLOGY

BUSINESS CHALLENGE

The success of your business depends in part on your communications system, but your current system can't keep up and costs are spiraling. Each new application is more bandwidth-hungry than the next. Demand for triple play services (voice, video and data) is escalating. How can you meet this demand within budget? Since the majority of your LAN traffic is already Ethernet, it makes sense to use Ethernet as your transport technology. By converging your network services onto a uniform Gigabit Ethernet transport system, you can streamline operations while improving overall network efficiency.

KEY REQUIREMENTS

- Scalability to meet the company's requirements for the foreseeable future
- Secure, granular bandwidth that can be added in step with demand
- Performance assurance features to enable rapid fault isolation and repair from a centralized management site
- End-to-end management that facilitates service rollouts and updating
- Lowest possible cost per bit

THE MERITON SOLUTION

The Meriton 7200 Optical Switching Platform (OSP) and the 6400 Optical Transport Platform (OTP) are deployed in the core of the network to provide economical, high-capacity, high-speed bandwidth Gigabit Ethernet transport. Smaller or remote offices are interconnected using the Meriton 3300 Optical Services Multiplexer (OSM). The Meriton solution enables you to fill each fiber channel to capacity as close to the source as possible, as Ethernet interfaces range from 1.5 Mb/s to 10 Gb/s. This scalability means you don't pay for empty fiber and you're not forced to add new nodes to compensate for network inefficiencies. The system also enables you to carry all the different types of traffic generated by your company with appropriate levels of service assigned to each, from best-effort to mission-critical applications. Advanced management tools provide detailed performance monitoring capabilities and enable you to turn up services quickly, in step with your requirements.

TOP BENEFITS REALIZED

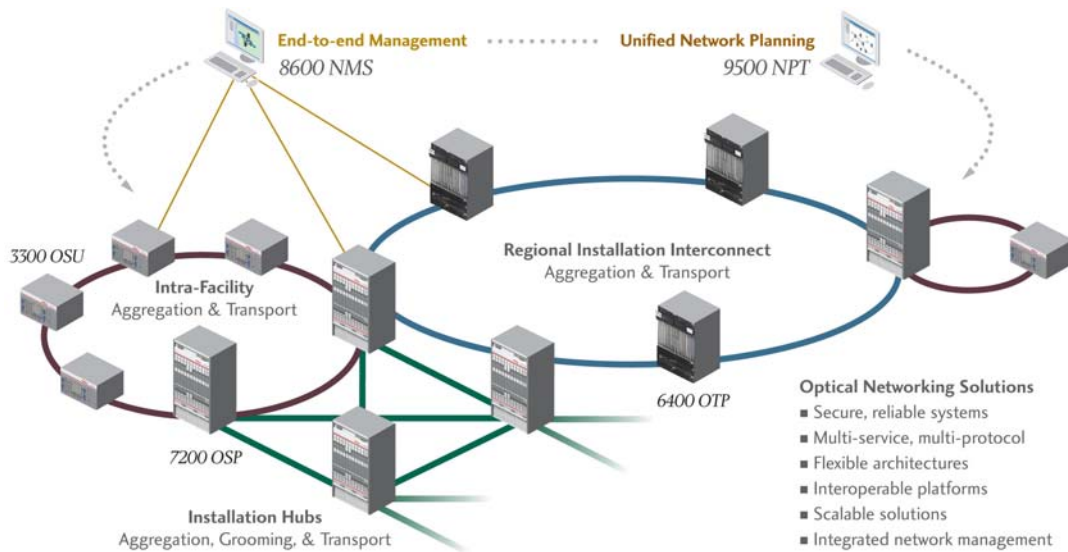
- **Scalability** – Meriton leads the industry in density as the same infrastructure can be used to scale to 320 Gb/s of capacity (in half a rack) without any additional shelves. Adding wavelengths — to accommodate greater volume — simply requires pluggable transceivers (SFPs) and optical interface cards. The 6400 OTP allows for modular growth in groups of 8 wavelengths, enabling low first in costs and a simple and cost-effective path to growth.
- **Security** – Meriton provides a reliable, redundant and secure network that provides carrier class, five nines reliability and is NEBS compliant.
- **Performance assurances** – Layer 2 performance monitoring, including BER monitoring along with embedded comprehensive diagnostic capabilities, ensures rapid fault isolation and remedy from a centralized management site.
- **Management simplicity** – central management, using a point-and-click network management system, means there is no need to be on site at remote locations. The integral wavelength switching of the 7200 OSP eliminates the need for additional switching and grooming equipment, ensuring simplified end-to-end management. The GMPLS control plane and automated optical layer of the 6400 OTP provides high levels of automation and simple and fast provisioning of new services, giving network operators shorter intervals to realizing revenue-generating new services.

- **Operational flexibility** – line interfaces can be changed entirely through software controls, making it easy to adapt the network to future needs.
- **Lowest total cost of ownership** – a proven solution for delivering the lowest total cost of ownership while meeting growth and scalability demands.

RELATED PRODUCTS



MERITON'S UNIFIED OPTICAL NETWORKING SOLUTIONS



Deployable in a wide range of military and government applications



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